STATUS OF CLAIMS

The following is the current status of the claims in this application. This listing of claims will replace all prior versions and listings of claims in the application.

1. (Currently Amended) A method of making cellular cores suitable to use of wood comprises the steps of:

1) providing a plurality of ribbed plies, ~~said ribs having free edges,~~ each ribbed ply comprising a flat ply having first and second flat sides, and a plurality of flat ribs, said ribs having fixed edges secured to the first side of the flat ply and opposite free edges;

2) creating a stack of said ribbed plies by adhesively attaching said ribbed plies together with the second side of each said ply ~~of each of said ribbed ply~~ against said free edges of said ribs on an adjacent ribbed ply; and

3) creating said cellular cores by cutting slices off said stack of ribbed plies, cutting perpendicular to said ribs.

2. (Currently Amended) ~~The method of claim 1, limited to~~ A method of making hollow cell cellular cores, comprising the steps of:

1) creating a plurality of hollow ribbed plies, the ribs of each hollow ribbed ply having free edges, using the following steps:

a) providing a plurality of plies;

b) providing a first plurality of ribs;

c) providing a fixture of holding a second plurality of said ribs, selected from said first plurality, parallel to each other with one set of edges of said second plurality of ribs in a flat plane and exposed above said fixture;

d) installing, for each of said plurality of hollow ribbed plies, said second plurality of ribs in said fixture;

e) using adhesive attachment, attaching one of said plurality of plies to said exposed edges of said second plurality of plies;

f) allowing said adhesive attachment to cure; and

g) removing each of said hollow ribbed plies from said fixture;

2) creating a stack of said hollow ribbed plies by adhesively attaching said plurality of hollow ribbed plies together with said ply of each of said hollow ribbed plies against said free edges of an adjacent one of said hollow ribbed plies; and

3) creating a plurality of said hollow cell cellular cores by cutting slices of said stack of hollow ribbed plies, cutting perpendicular to said ribs.

3. (Withdrawn) The method of claim 1, limited to making filled cell cellular cores, comprising the steps of:

1. providing a plurality of filled rib slices, using the steps of:

a) providing a plurality of plies;

b) providing a plurality of filler layers;

c) making a stack of, alternately, said plies and said filler layers,

adhesively attached to each other; and

d) making said plurality of said filled ribbed slices by slicing them from said stack of step C, slicing perpendicular to said ribs.

2) proving a plurality of plies;

3) making a stack of said plurality of plies and said filled rib slices, stacked alternately with all ribs parallel and adhesively attached to each other; and

4) slicing said filled cell cellular cores from said stack of step 3), cutting perpendicular to said ribs.

4. (Original) A method of making a core for building panel, comprising:

providing a plurality of ply sheets, each having a first side and a second side;

providing a plurality of ribs for each ply sheet, each said rib having a first edge and a second edge;

supporting the ribs for each ply sheet in spaced-apart parallelism, with the first edges of the ribs contacting the first side of the ply sheet, and gluing the first edges of the ribs to the first side of the ply sheet so that the ribs project perpendicularly from the ply sheet in spaced apart parallelism, with their second edges substantially within a common plane that is spaced from and parallel to the ply sheet, so as to produce a ribbed ply composed of the ply sheet and ribs;

stacking the ribbed plies with the second side of each ply sheet in contact with the second edges of the ribs on an adjacent ply sheet; and gluing the second edges of the ribs to the ply sheets they contact; and

following completion of the stacking of the ribbed plies, slicing the stack in a across the ribs, so as to create a plurality of cellular core members, each composed of the sliced plies and ribs.

5. (Original) The method of claim 4, further comprising:

providing a fixture for holding the ribs parallel to each other with the first edges of the ribs in a flat plane and exposed above the fixture;

mounting the ribs for a ribbed ply in said fixture, in parallel to each other and with the upper edges of the ribs in a flat plane exposed above the fixture;

adhesively attaching the ply sheet to the first edges of said ribs; and

allowing the adhesive to cure and then removing the ply sheet and the ribs from the fixture.

6. (Withdrawn) A method of making a core for a building panel, comprising:

providing a plurality of ply sheets, each having a first side and second side;

providing a plurality of filler sheets, one for each ply sheet, each filler sheet and being less dense than the ply sheets and having a first side and a second side;

adhesively attaching the first side of the filler sheet to the first sides of the ply sheets to form a plurality of ply sheet/filler sheet members;

allowing the adhesive to cure;

forming a stack of said ply sheet/filler sheet members and when so doing, placing the second side of the filler sheets in contact with the second sides of the ply sheets, and adhesively attaching such sides together;

allowing the adhesive to cure and then slicing the stack perpendicular to the ply sheets, to form a ribbed member composed of ply-sheet ribs and filler material between the ribs;

making a stack of said ribbed members and placing a ply-sheet at the top and at the bottom of the stack and between each adjacent ribbed member, and adhesively securing the ribbed members and ply sheets together;

allowing the adhesive to cure; and

cutting the stack of said ribbed members perpendicular to the ribs, so as to create a plurality of cellular core members, each composed of ribs formed by the sliced ply sheets and filler members between the ribs formed by the filler sheets.